

IN THE CLAIMS:

Kindly cancel claims 1-9 without prejudice or admission and add new claims 10-29 as shown in the following listing of claims, which replaces all previous versions and listings of claims in this application.

1. - 9. (canceled).

10. (new) A liquid crystal display device comprising: a liquid crystal panel comprised of a first transparent plate having a plurality of segment electrodes, a second transparent plate having a plurality of common electrodes and being spaced-apart from and opposite to the first transparent plate to define a gap therebetween, and a liquid crystal layer disposed in the gap between the first and second transparent electrodes, the plurality of segment and common electrodes comprising a preselected number of segment and common electrodes for receiving driving segment and common signals, respectively, and defining a plurality of pixels arranged in a matrix for displaying an image; wherein the plurality of segment electrodes comprises at least one remaining segment electrode to be placed in a normally ON state and for receiving a segment signal waveform so that an effective voltage value between the segment signal waveform and any waveform of the driving common signals exceeds a selection voltage applied across the liquid crystal layer, and the plurality of common electrodes comprises at least one

remaining common electrode to be placed in a normally ON state and for receiving a common signal waveform so that an effective voltage value between the common signal waveform and any waveform of the driving segment signals exceeds the selection voltage applied across the liquid crystal layer, thereby displaying a frame on a portion of the liquid crystal panel not corresponding to the pixels.

11. (new) A liquid crystal display device according to claim 10; wherein a waveform obtained by synthesis of the common signal waveform and the waveform of the driving segment signals has an effective voltage value greater than an effective voltage value of a waveform applied to an ON-state liquid crystal in the pixels.

12. (new) A liquid crystal display device according to claim 10; further comprising a driver integrated circuit for outputting at least one of the driving segment signals and the driving common signals, and for generating at least one of the common signal waveform and the segment signal waveform in accordance with an input signal to the driver integrated circuit.

13. (new) A liquid crystal display device according to claim 12; wherein the common signal waveform is asynchronous to a frame line marker signal, has an equal H·L time in one period, and does not coincide with a liquid-crystal AC-field generating signal.

14. (new) A liquid crystal display device according to claim 13; wherein the common signal waveform is a signal waveform obtained by dividing down the liquid-crystal AC-field generating signal for level shift to the same potential as that of a segment voltage.

15. (new) A liquid crystal display device according to claim 14; wherein the common signal waveform is a signal waveform obtained by dividing down the liquid-crystal AC-field generating signal to 1/2.

16. (new) A liquid crystal display device according to claim 10; wherein the segment signal waveform has the same period as a liquid-crystal AC-field generating signal and the same potential as the common signal waveform.

17. (new) A liquid crystal display device according to claim 10; wherein the remaining segment electrode comprises a dummy segment electrode disposed outside of the segment electrodes defining the pixels for displaying an image.

18. (new) A liquid crystal display device according to claim 10; wherein the remaining common electrode comprises a dummy common electrode disposed outside of the common electrodes defining the pixels for displaying an image.

19. (new) A liquid crystal display device comprising: a liquid crystal panel comprised of a liquid crystal material disposed between a plurality of segment and

common electrodes defining a plurality of pixels arranged in a matrix; and a driver integrated circuit for generating driving segment signals and driving common signals to drive preselected ones of the segment and common electrodes, respectively, to display an image on the liquid crystal panel, and for generating a segment signal waveform and a common signal waveform to drive one of the segment electrodes and one of the common electrodes, respectively, each placed in a normally ON state and not corresponding to the preselected ones of the segment and common electrodes, respectively, so that a frame is displayed at a portion of the liquid crystal panel not corresponding to the pixels.

20. (new) A liquid crystal display device according to claim 19; wherein an effective voltage value between the segment signal waveform and any waveform of the driving common signals exceeds a selection voltage applied across the liquid crystal material.

21. (new) A liquid crystal display device according to claim 20; wherein an effective voltage value between the common signal waveform and any waveform of the driving segment signals exceeds a selection voltage applied across the liquid crystal material.

22. (new) A liquid crystal display device according to claim 19; wherein an effective voltage value between the common signal waveform and any waveform of the driving segment

signals exceeds a selection voltage applied across the liquid crystal material.

23. (new) A liquid crystal display device according to claim 19; wherein the common signal waveform is asynchronous to a frame line marker signal, has an equal H·L time in one period, and does not coincide with a liquid-crystal AC-field generating signal.

24. (new) A liquid crystal display device according to claim 23; wherein the common signal waveform is a signal waveform obtained by dividing down the liquid-crystal AC-field generating signal for level shift to the same potential as that of a segment voltage.

25. (new) A liquid crystal display device according to claim 23; wherein the common signal waveform is a signal waveform obtained by dividing down the liquid-crystal AC-field generating signal to 1/2.

26. (new) A liquid crystal display device according to claim 19; wherein the segment signal waveform has the same period as a liquid-crystal AC-field generating signal and the same potential as the common signal waveform.

27. (new) A liquid crystal display device according to claim 19; wherein each of the segment electrode and the common electrode not corresponding to the preselected ones of the segment and common electrodes, respectively, comprises a

dummy electrode disposed outside of segment and common electrodes, respectively, defining the pixels.

28. (new) A liquid crystal display device according to claim 19; wherein segment electrode not corresponding to the preselected ones of the segment electrodes comprises a dummy segment electrode disposed outside of the segment electrodes, respectively, defining the pixels.

29. (new) A liquid crystal display device according to claim 19; wherein the common electrode not corresponding to the preselected ones of the common electrodes comprises a dummy common electrode disposed outside of the common electrodes, respectively, defining the pixels.

ADDITIONAL FEES:

No additional fees are believed required in connection with this response; however, should it be determined that a fee is due, authorization is hereby given to charge any such fee to our Deposit Account No. 01-0268.